Title (en)

MAGNETIC RESONANCE SPECTROSCOPY WITH AUTOMATIC PHASE AND B0 CORRECTION USING INTERLEAVED WATER REFERENCE SCAN

Title (de)

MAGNETRESONANZSPEKTROSKOPIE MIT AUTOMATISCHER PHASEN- UND B0-KORREKTUR MITTELS EINES VERSCHACHTELTEN WASSER-REFERENZSCANS

Title (fr)

SPECTROSCOPIE PAR RÉSONANCE MAGNÉTIQUE AVEC CORRECTION AUTOMATIQUE DE PHASE ET B0 UTILISANT UN BALAYAGE DE RÉFÉRENCE D'EAU INTERCALÉ

Publication

EP 2676150 B1 20190501 (EN)

Application

EP 12710788 A 20120210

Priority

- US 201161442963 P 20110215
- IB 2012050602 W 20120210

Abstract (en)

[origin: WO2012110927A1] A magnetic resonance (MR) sequence (14)is performed, including: applying a preparatory MR sub-sequence (S prep)providing water signal suppression; performing a magnetic resonance spectroscopy (MRS) sub-sequence (S MRS)after applying the preparatory MR sub-sequence to acquire H MRS data with water signal suppression; and performing an MR reference sub-sequence (S Ref)to acquire MR reference data. The MR reference sub-sequence is performed after the MRS sub-sequence. Phase and B0 correction of the H MRS data with water signal suppression are performed using the MR reference data to generate corrected MRS data. The excitation pulse (g)of the MR reference sub-sequence has a flip angle of less than or equal to o, and more preferably has a flip angle of less than or equal to 3 o.In some embodiments the MR sequence has a total repetition time (TR) of 2000 msec or less.

IPC 8 full level

G01R 33/46 (2006.01); **G01R 33/44** (2006.01); **G01R 33/483** (2006.01); **G01R 33/485** (2006.01); **G01R 33/56** (2006.01); **G01R 33/565** (2006.01)

CPC (source: EP US)

G01R 33/443 (2013.01 - US); **G01R 33/4838** (2013.01 - EP US); **G01R 33/485** (2013.01 - EP US); **G01R 33/56563** (2013.01 - EP US); G01R 33/4625 (2013.01 - EP US); G01R 33/5607 (2013.01 - EP US)

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